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APPLICATION NO.	Fil	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,783	10/17/2003		Calum E. MacAulay	1174-4-8	9550	
996 7590 08/17/2006			EXAMINER			
	•	SON, HALEY I	LEUBECKER, JOHN P			
155 - 108TH	AVENU!	E NE				
SUITE 350				ART UNIT	PAPER NUMBER	
BELLEVUE,	WA 98	004-5901		3739		

DATE MAILED: 08/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		T							
		Application No.	Applicant(s)						
		10/688,783	MACAULAY ET AL.						
	Office Action Summary	Examiner	Art Unit						
		John P. Leubecker	3739						
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address	s					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed n the mailing date of this commun ED (35 U.S.C. § 133)						
Status									
1) 🛛	Responsive to communication(s) filed on 17 Oc	ctober 2003							
	This action is FINAL . 2b)⊠ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	Disposition of Claims								
4) 🛛	Claim(s) <u>31-37 and 48</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>31,33,35,37</u> is/are rejected.								
7)🖾	Claim(s) 32,34,36 and 48 is/are objected to.								
8)[Claim(s) are subject to restriction and/or	r election requirement.							
Applicati	on Papers								
9)□ .	The specification is objected to by the Examine	r							
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
•	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) 🔲									
Priority u	nder 35 U.S.C. § 119								
_	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* S	ee the attached detailed Office action for a list of	of the certified copies not receive	∌d.						
Attachment	c(s)								
	e of References Cited (PTO-892)	4) Interview Summary							
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Do 5) Notice of Informal F	ate Patent Application (PTO-152)						
	No(s)/Mail Date <u>4/12/04</u> .	6) Other:							

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Election/Restrictions

1. Applicant's election (although Applicant doesn't specifically elect Group I, cancellation

of the claims of Group II is taken as a selection of Group I) of Group I in the reply filed on June

9, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the

supposed errors in the restriction requirement, the election has been treated as an election

without traverse (MPEP § 818.03(a)).

Specification

2. The disclosure is objected to because of the following informalities: the continuation data

in the first paragraph of the specification (as amended on April 12, 2004) needs to be updated

(i.e., parent application patent number).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 35 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

As to claim 35, term "the pixels" (line 3) lacks antecedent basis.

Claim Rejections - 35 USC § 102

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5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claim 31, 35 and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Rosenberg (U.S. Pat. 5,815,624).

Referring mainly to Figures 3 and 4, Rosenberg discloses a method of illuminating a target including the steps of transmitting light (e.g. 47,49,51, Fig.3) for a light source to a proximal end (Fig.3) of a light guide bundle (54) via a spatial light modulator (46) wherein the spatial light modulator transmits the light substantially only to cores of light guides (48,50,52) in the light guide bundle (col.4, lines 43-45), transmitting the light from the proximal end of the light guide bundle to a distal end (Fig.4) of the light guide bundle and emitting the light from the distal end of the light guide bundle, and illuminating the target with the light emitted from the distal end of the light guide bundle (col.5, lines 23-30). As to claim 35, note that the light source will illuminate a substantial portion (e.g. all) of the pixels of the spatial light modulator (46), wherein the centers of the lenslets (42) correspond to pixels of an on-state and areas between lenslets (42) (best shown in Figure 2A) correspond to off-state pixels. As to claim 37, note that light emanating from the distal end adjacent light guides do not "interfere" with each other, as shown by the lines of light in Figure 4 emanating from light guides (48, 50 and 52) and suggested by the respective alignment of the light guides and lenslets (58,60 and 62) (col.5, lines 25-29).

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7. Claims 31 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Furuya et

al. (U.S. Pat 5,430,816).

Referring mainly to Figure 8, Furuya et al. disclose a method of illuminating a target

including transmitting light from a laser light source (1) to a proximal end (4) of a light guide

bundle via a spatial light modulator (mask plate, col.24, lines 10) wherein the spatial light

modulator transmits the light substantially only to cores of light guides in the light guide bundle

(col.24, lines 9-14), transmitting the light from the proximal end of the light guide bundle to a

distal end (6) of the light guide bundle and emitting the light from the distal end of the light

guide bundle (note dashed lines in Figure 8), and illuminating the target with the light emitted

from the distal end of the light guide bundle (col.17, lines 51-59).

Allowable Subject Matter

8. Claims 32, 34, 36 and 48 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Richards-Kortum et al. (U.S. Pat. 6,370,422)

Shanks (U.S. Pat. 5,514,127)

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Jovin et al. (U.S. Pat. 6,399,935)

Kare et al. (US 2004/0178329)

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Cryan et al. (U.S. Pat. 6,487,351)

Yoshida et al. (Jap. Pat. 58-17403)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Leubecker whose telephone number is (571) 272-4769. The examiner can normally be reached on Monday through Friday, 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

John P. Leubecker Primary Examiner Art Unit 3739

jpl